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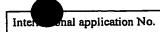


PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

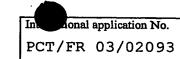
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INTERNATION	ONAL PRELIMIN		ATION REPORT
	(PCT Article	6 and Rule 70)	
Applicant's or agent's file reference B14166.3PV	FOR FURTHER AC		ication of Transmittal of Internat Examination Report (Form PCT/IPEA/
International application No. PCT/FR2003/002093	International filing date 04 juillet 2003		Priority date (day/month/year) 05 juillet 2002 (05.07.2002
International Patent Classification (IPC) or no C30B 33/00, H01L 21/02, 51/20		IPC	
Applicant	· · · · · · · · · · · · · · · · · · ·		•
COM	MISSARIAT A L'E	NERGIE ATOM	IIQUE
This REPORT consists of a total of This report is also accompared been amended and are the base.	nied by ANNEXES, i.e.,	sheets of the descrip	sheet. tion, claims and/or drawings which have ectifications made before this Authorit
(see Rule 70.16 and Section These annexes consist of a to	607 of the Administrative	e Instructions under	
This report contains indications relat	ting to the following iten	s:	•
I Basis of the report			
II Priority			
III Non-establishment	of opinion with regard	novelty, inventive	step and industrial applicability
IV Lack of unity of in	vention		
v Reasoned statemen	nt under Article 35(2) wi nations supporting such	h regard to novelty, statement	inventive step or industrial applicability
VI Certain documents	cited		
VII Certain defects in t	the international applicat	on	
VIII Certain observation	ns on the international ap	plication	•
		•	
Date of submission of the demand		Date of completion	of this report
21 janvier 2004 (21.01.	2004)	24 Se	eptember 2004 (24.09.2004)
Name and mailing address of the IPEA/EP		Authorized officer	
Facsimile No.		Telephone No.	





PCT/FR2003/002093

I. Basis	of the	report						
1. This report has been drawn on the basis of (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.):								
		the international application as originally filed.						
	\boxtimes	the description,	pages1-27	, as originally filed,				
			pages	, filed with the demand,				
				, filed with the letter of,				
			pages	, filed with the letter of				
	\boxtimes	the claims,	Nos. 1-29	, as originally filed,				
	<u></u>		Nos	, as amended under Article 19,				
•		•	Nos	, filed with the demand,				
				, filed with the letter of,				
•			Nos.	, filed with the letter of				
i .	\square	the drawings,	sheets/fig1/4-4/4	, as originally filed,				
	K31	, 2	sheets/fig	, filed with the demand,				
			sheets/fig	, filed with the letter of,				
			sheets/fig	, filed with the letter of ·				
2. The a	mend	ments have resulte	ed in the cancellation of:					
		the description,	pages					
		the claims,	Nos	<u>. </u>				
		the drawings,	sheets/fig					
3. 🗌	This to go	report has been ex beyond the discle	stablished as if (some of) to osure as filed, as indicated	ne amendments had not been made, since they have been considered in the Supplemental Box (Rule 70.2(c)).				
4. Addi	tional	observations, if ne	ecessary:					
		•						
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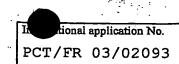
V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1. Statement			
Novelty (N)	Claims	6, 9-11, 15, 19-24, 26-29	YES
	Claims	1-5, 7, 8, 12-14, 16-18, 25	NO
Inventive step (IS)	Claims	6, 9-11, 15, 19-24, 27-29	YES
	Claims	26	NO
Industrial applicability (IA)	Claims	1-29	YES
	Claims	none	NO

2. Citations and explanations

- 1. Reference is made to the following documents:
 - D1: FR-A-2 757 183 (COMMISSARIAT ENERGIE ATOMIQUE)
 19 June 1998 (1998-06-19) (cited in the application);
 - D2: FR-A-2 786 794 COMMISSARIAT ENERGIE ATOMIQUE)
 9 June 2000 (2000-06-09) (cited in the application).
- The present application does not fulfil the requirements set forth in PCT Article 33(1) because the subject matter of claims 1-5, 7, 8, 12-14, 16-18 and 25 does not comply with the requirement of novelty defined in PCT Article 33(2).
- 2.1 Document D1 describes (see figure 1 and page 16, lines 8-17; the references between parentheses apply to said document):

an assembly of nano-objects, in particular, atomic wires, one-dimensional nanostructures and quantum dots, which assembly is characterised in that said nano-objects are made of a metal (see page 16, lines



10-11) and are formed on the surface (6) of a single-crystal semiconductor substrate.

It follows that the subject matter of claim 1 is not novel (PCT Article 33(2)). In this regard, it should be noted that the expression "in particular" is considered to introduce an optional feature that has no limiting effect on the scope of the claim (the PCT International Search and Preliminary Examination Guidelines, \$5.40).

2.2 Dependent claims 2-5, 7 and 8 do not contain any features which, in combination with the features of any one of the claims to which they refer, might define subject matter that fulfils the PCT requirements of novelty and/or inventive step, for the following reasons:

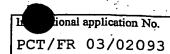
The features in claims 2-5, 7 and 8 are described in D1 (PCT Article 33(2)).

2.3 Document D1 describes (see figure 1 and page 16,
 lines 12-17; the references between parentheses
 apply to said document):

a method for producing an assembly of nano-objects, wherein a surface (6) of a single-crystal semiconductor substrate is prepared and a metal is deposited on the resulting prepared surface.

It follows that the subject matter of claim 12 is not novel (PCT Article 33(2)).

2.4 Dependent claims 12-14, 16-18, 25 and 26 do not contain any features which, in combination with the



features of any one of the claims to which they refer, might define subject matter that fulfils the PCT requirements of novelty and/or inventive step, for the following reasons:

The features in claims 12-14, 16-18 and 25 are described in D1 (PCT Article 33(2)).

The features in dependent claim 26 have already been used for the same purpose in a similar method (see D2, page 4, line 29 to page 5, line 7). It would be obvious for a person skilled in the art to use these features with a corresponding effect in a method as per document D1 and thereby arrive at a method as per claim 26 (PCT Article 33(3)).

3. Claims 1-29 fulfil the requirement of industrial applicability set forth in PCT Article 33(4).